EXAMINER'S AMENDMENT & REASONS FOR ALLOWANCE

I.   **EXAMINER'S AMENDMENT:**

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no

later than the payment of the Issue Fee.

Authorization for this examiner's amendment was given in a telephone interview with

Ms. Sue Holloway (Reg. No. 37,850) on 11/05/2009.

The application has been amended as follows:

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

1. (Currently Amended) A computerized method of updating a <u>multimedia</u> content

description represented as a tree comprising:

  receiving, by a decoder, a fragment update unit for the <u>multimedia</u> content

description, the fragment update unit comprising a navigation path<u>, a fragment payload,</u>

and an update command<u>, wherein the navigation path is a context-based address that</u>

<u>selects a set of nodes based on their content</u>;

  selecting a set of nodes in the tree using the navigation path; [[and]]

  <u>selecting the update command;</u>

  <u>formatting the fragment payload if required by the update command;</u>

  <u>calculating the navigation path;</u>

  <u>creating the fragment update unit from the navigation path, the update command,</u>

<u>and the fragment payload if required; and</u>

  applying the update command to the <u>selected</u> set of nodes,

  <u>wherein formatting the fragment payload comprises including an attribute</u>

<u>identification tag when an attribute is to be updated and wherein the fragment payload is</u>

<u>not required when a fragment is to be deleted.</u>

2.   (Cancelled)

3.   (Currently Amended)   The computerized method of claim [[2]] <u>1</u>, wherein the

content-based address is expressed as an XML XPath location path when the multimedia

content description is coded in XML (extensible markup language).

4.   (Original) The computerized method of claim 1, wherein the fragment update

unit comprises a fragment payload and applying the update command comprises updating

the set of nodes in the tree with the fragment payload.

5.   (Original) The computerized method of claim 4, wherein the fragment update

unit further comprises a plurality of fragment payloads and updating the set of nodes

comprises updating each one of the set of nodes with a different one of the plurality of

fragment payloads in a predetermined order.

6.   (Original) The computerized method of claim 5, wherein the predetermined order

is determined by an ordering of all nodes in the tree.

7.   (Original) The computerized method of claim 6, wherein the ordering of all

nodes in the tree is selected from the group consisting of pre-order, post-order and infix

order.

8.   (Original) The computerized method of claim 4, wherein the fragment payload is selected from the group consisting of a fragment, a fragment reference, and an attribute.

9.   (Original) The computerized method of claim 1, wherein the update command is selected from the group consisting of add, delete, and replace commands.

10.   (Original) The computerized method of claim 1 further comprising:
 sending the fragment update unit as part of an access unit.

11-22. (Cancelled)

23. (Currently amended) A computer-readable storage medium having executable instructions to cause a computer to execute a method comprising:
        receiving a fragment update unit for a <u>multimedia</u> content description represented as a tree, the fragment update unit comprising a navigation path<u>, a fragment payload,</u> and an update command<u>, wherein the navigation path is a context-based address that selects a set of nodes based on their content</u>;
        selecting a set of nodes in the tree using the navigation path; [[and]]

selecting the update command;

formatting the fragment payload if required by the update command;

calculating the navigation path;

creating the fragment update unit from the navigation path, the update command,

and the fragment payload if required; and

applying the update command to the selected set of nodes,

wherein formatting the fragment payload comprises including an attribute

identification tag when an attribute is to be updated and wherein the fragment payload is

not required when a fragment is to be deleted.

24.   (Cancelled)

25.   (Currently Amended) The computer-readable storage medium of claim [[24]]

23, wherein the content-based address is expressed as an XML XPath location path

when the multimedia content description is coded in XML (extensible markup

language).

26.   (Previously Presented) The computer-readable storage medium of claim 23,

wherein the fragment update unit comprises a fragment payload and applying the update

command comprises updating the set of nodes in the tree with the fragment payload.

27.   (Previously Presented) The computer-readable storage medium of claim 26,

wherein the fragment update unit further comprises a plurality of fragment payloads and

updating the set of nodes comprises updating each one of the set of nodes with a different

one of the plurality of fragment payloads in a predetermined order.

28.   (Previously Presented) The computer-readable storage medium of claim 27,

wherein the predetermined order is determined by an ordering of all nodes in the tree.

29.   (Previously Presented) The computer-readable storage medium of claim 28,

wherein the ordering of all nodes in the tree is selected from the group consisting of pre-

order, post-order and infix order.

30.   (Previously Presented) The computer-readable storage medium of claim 26,

wherein the fragment payload is selected from the group consisting of a fragment, a

fragment reference, and an attribute.

31.   (Previously Presented) The computer-readable storage medium of claim 23,

wherein the update command is selected from the group consisting of add, delete, and

replace commands.

32.   (Previously Presented) The computer-readable storage medium of claim 23,

wherein the method further comprises:

        sending the fragment update unit as part of an access unit.

33-44. (Cancelled)

45.   (Currently amended) A system for updating a multimedia content description

represented as a tree comprising:

        a processor coupled to a bus;

        a memory coupled to the processor through the bus;

        a communications interface coupled to the processor through the bus, and further

coupled to a communications medium; and

        a decode process executed by the processor from the memory to cause the

processor to: receive, through the communications interface, a fragment update unit for a

content description represented as a tree, wherein the fragment update unit comprises a

navigation path and an update command, to select a set of nodes in the tree using the

navigation path, and to apply the update command to the set of nodes

                receive, through the communications interface, a fragment update unit for

                the multimedia content description, wherein the fragment update unit comprises a

                navigation path, a fragment payload, and an update command, wherein the

navigation path is a context-based address that selects a set of nodes based on

their content;

select a set of nodes in the tree using the navigation path,

select the update command;

format the fragment payload if required by the update command;

calculate the navigation path;

create the fragment update unit from the navigation path, the update

command, and the fragment payload if required; and

apply the update command to the selected set of nodes,

wherein formatting the fragment payload comprises including an attribute

identification tag when an attribute is to be updated and wherein the fragment

payload is not required when a fragment is to be deleted.

46.   (Original) The system of claim 45, wherein the fragment update unit comprises a

fragment payload and the decode process further causes the processor to update the set of

nodes in the tree with the fragment payload when applying the update command.

47.   (Original) The system of claim 46, wherein the fragment update unit further

comprises a plurality of fragment payloads and the decode process further causes the

processor to update each one of the set of nodes with a different one of the plurality of

fragment payloads in a predetermined order to update the set of nodes.

48.   (Original) The system of claim 46, wherein the fragment payload is selected from

the group consisting of a fragment, a fragment reference, and an attribute.

49.   (Original) The system of claim 45, wherein the update command is selected from

the group consisting of add, delete, and replace commands.

50-56. (Cancelled)

II.   **REASONS FOR ALLOWANCE:**

Claims 1, 3-10, 23, 25-32, and 45-49 are allowed.

The following is an examiner's statement of reasons for allowance:

Interpreting the claims in light of the specification, Examiner finds the claimed invention

is patentably distinct from the prior art of record.

The prior art does not expressly teach or render obvious the invention as recited in

independent Claims 1, 23, and 45.

  The features as recited in independent Claims 1, 23, and 45 *"a fragment update*

unit for the multimedia content description, the fragment update unit

comprising a navigation path, a fragment payload, and an update command,

wherein the navigation path is a context-based address that selects a set of

nodes; creating the fragment update unit from the navigation path, the update

command, and the fragment payload if required; and applying the update

command to the selected set of nodes, wherein formatting the fragment payload

comprises including an attribute identification tag when an attribute is to be

updated and wherein the fragment payload is not required when a fragment is

to be deleted" when taken in the context of the Claims as a whole, were not

uncovered in the prior art teachings.

The Examiner asserts that the claims overcome the prior art of record when the

limitations are read in combination with the respective claimed limitations in their

entirety.

Dependent Claims are allowed as they depend upon allowable independent Claims.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany

the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

Contact information

III.   Any inquiry concerning this communication or earlier communications from the
         examiner should be directed to Maikhanh Nguyen whose telephone number is (571)
         272- 4093. The examiner can normally be reached on Monday - Friday from 9:00am
         – 30 pm. If attempts to reach the examiner by telephone are unsuccessful, the
         examiner's supervisor, Doug Hutton can be reached at (571) 272-4137.

         The fax phone number for the organization where this application or proceeding is
         assigned is 571-273-8300.

         Information regarding the status of an application may be obtained from the Patent
         Application Information Retrieval (PAIR) system. Status information for published
         applications may be obtained from either Private PAIR or Public PAIR. Status
         information for unpublished applications is available through Private PAIR only. For
         more information about the PAIR system, see http://pair-direct.uspto.gov. Should you
         have questions on access to the Private PAIR system, contact the Electronic Business
         Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a
         USPTO Customer Service Representative or access to the automated information
         system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Maikhanh Nguyen/

Examiner, Art Unit 2176

                                        /Laurie Ries/

                                        Primary Examiner

                                        Technology Center 2100

                                        6 November 2009